

FIG. 1

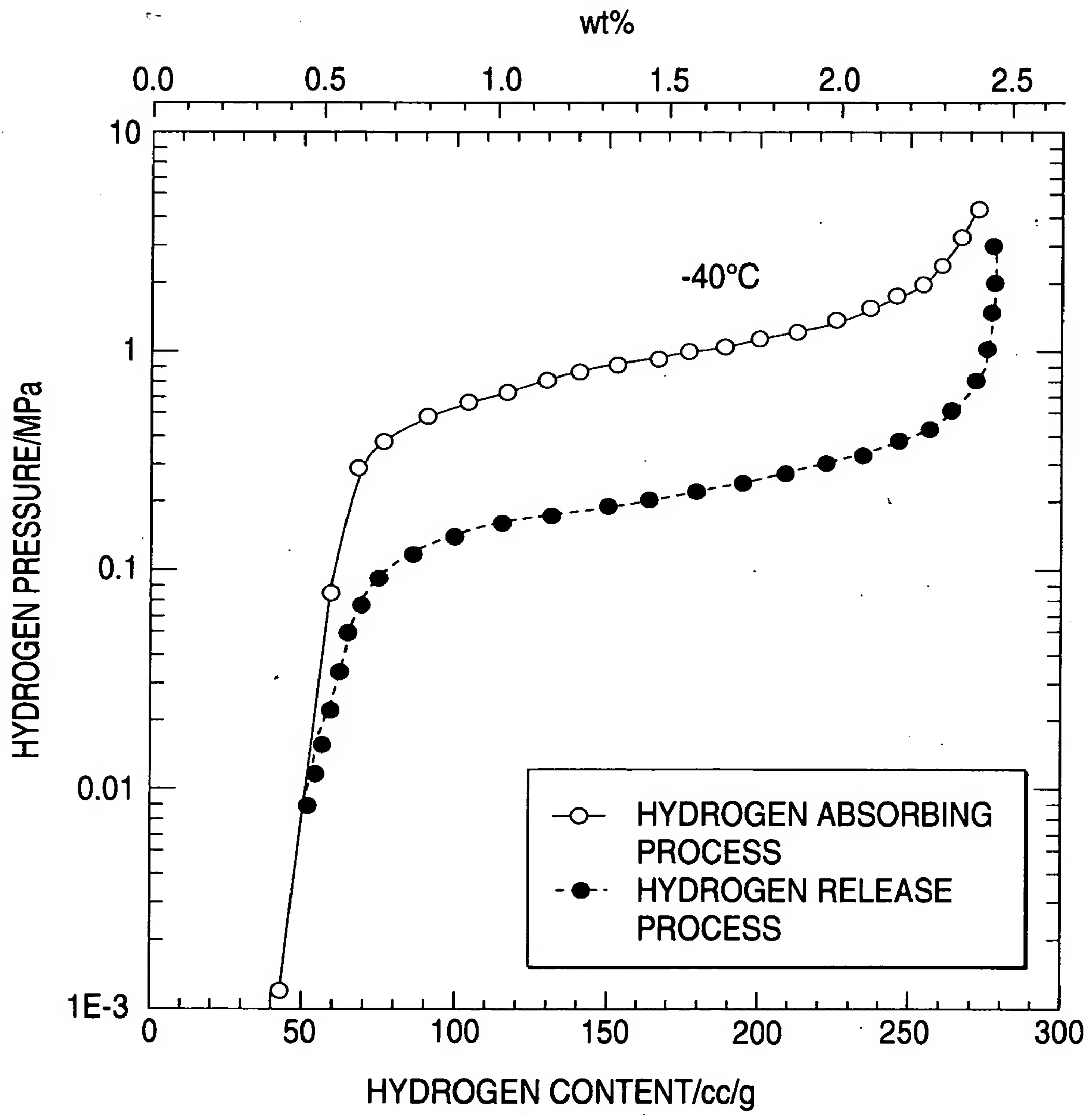
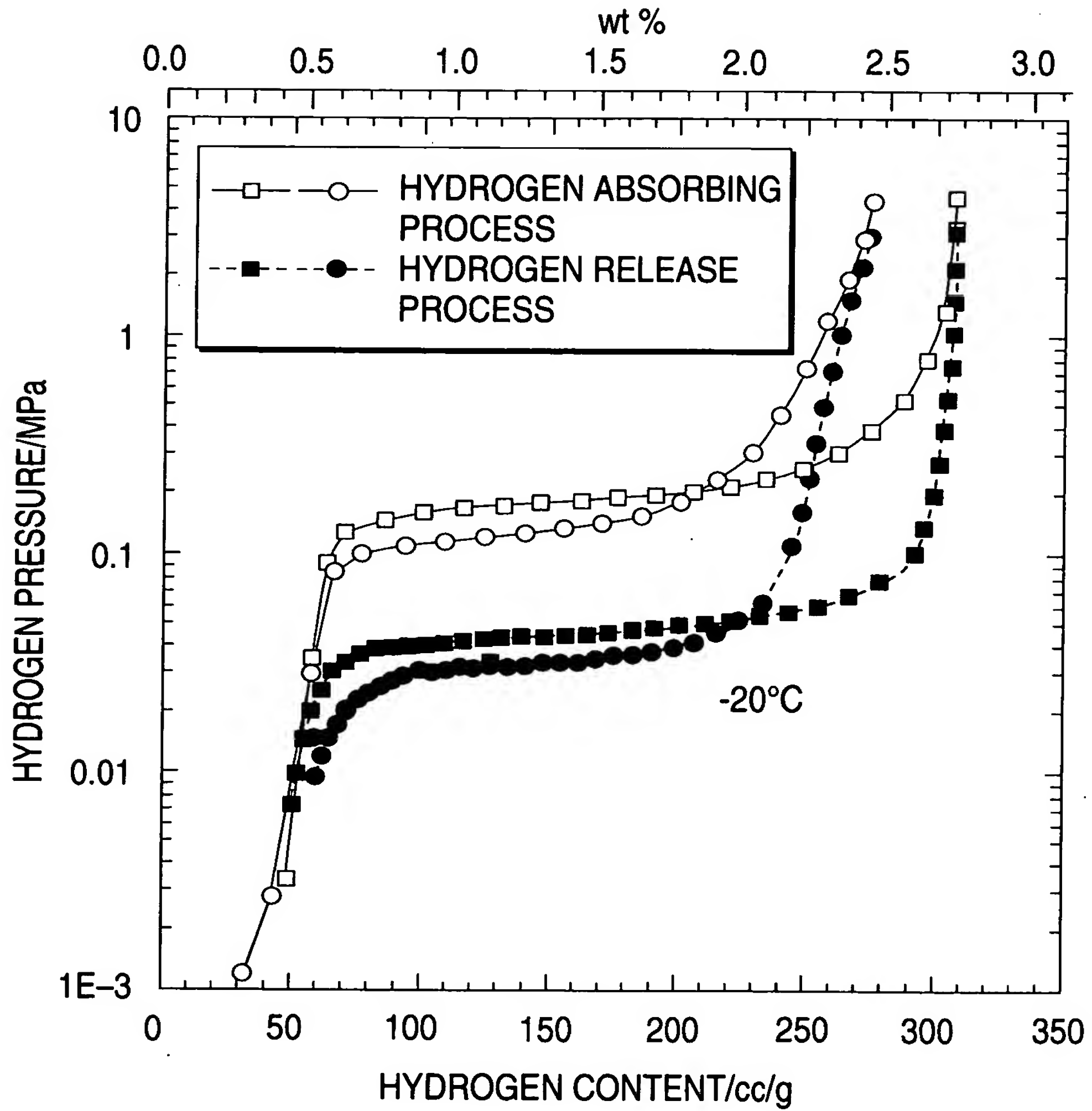


Figure 1 is a graph showing the hydrogen pressure (MPa) versus hydrogen content (cc/g) for the hydrogen absorbing and releasing processes of the Ti-40Zr-40Ni-20Cu-20V alloy at -20°C. The y-axis is logarithmic, ranging from 1E-3 to 10 MPa. The x-axis ranges from 0 to 350 cc/g. A secondary x-axis at the top shows weight percentage (wt%) from 0.0 to 3.0. The legend indicates two processes: Hydrogen Absorbing Process (solid line with open squares and circles) and Hydrogen Release Process (dashed line with filled squares and circles). The absorbing process starts at low pressure and increases to about 5 MPa at 300 cc/g. The release process starts at about 0.08 MPa and increases to about 5 MPa at 300 cc/g. A label "-20°C" is present in the lower right area of the plot.

HEAT TREATMENT:  $\square$  -  $\blacksquare$  - 1450°C X 1MIN.  $\rightarrow$  WQ  
 $\circ$  -  $\bullet$  - 1300°C X 3HR.  $\rightarrow$  WQ

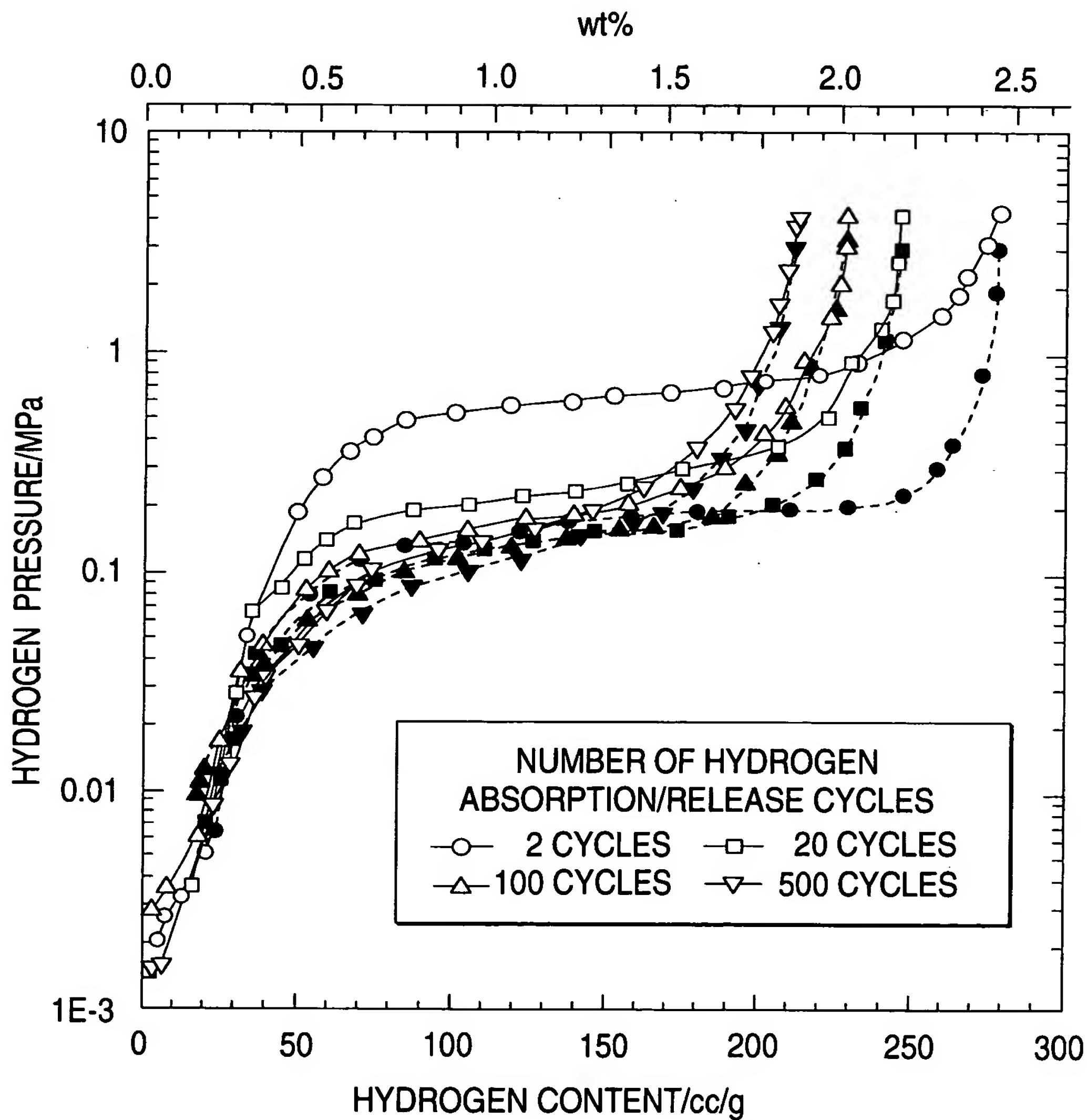
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FIG. 3



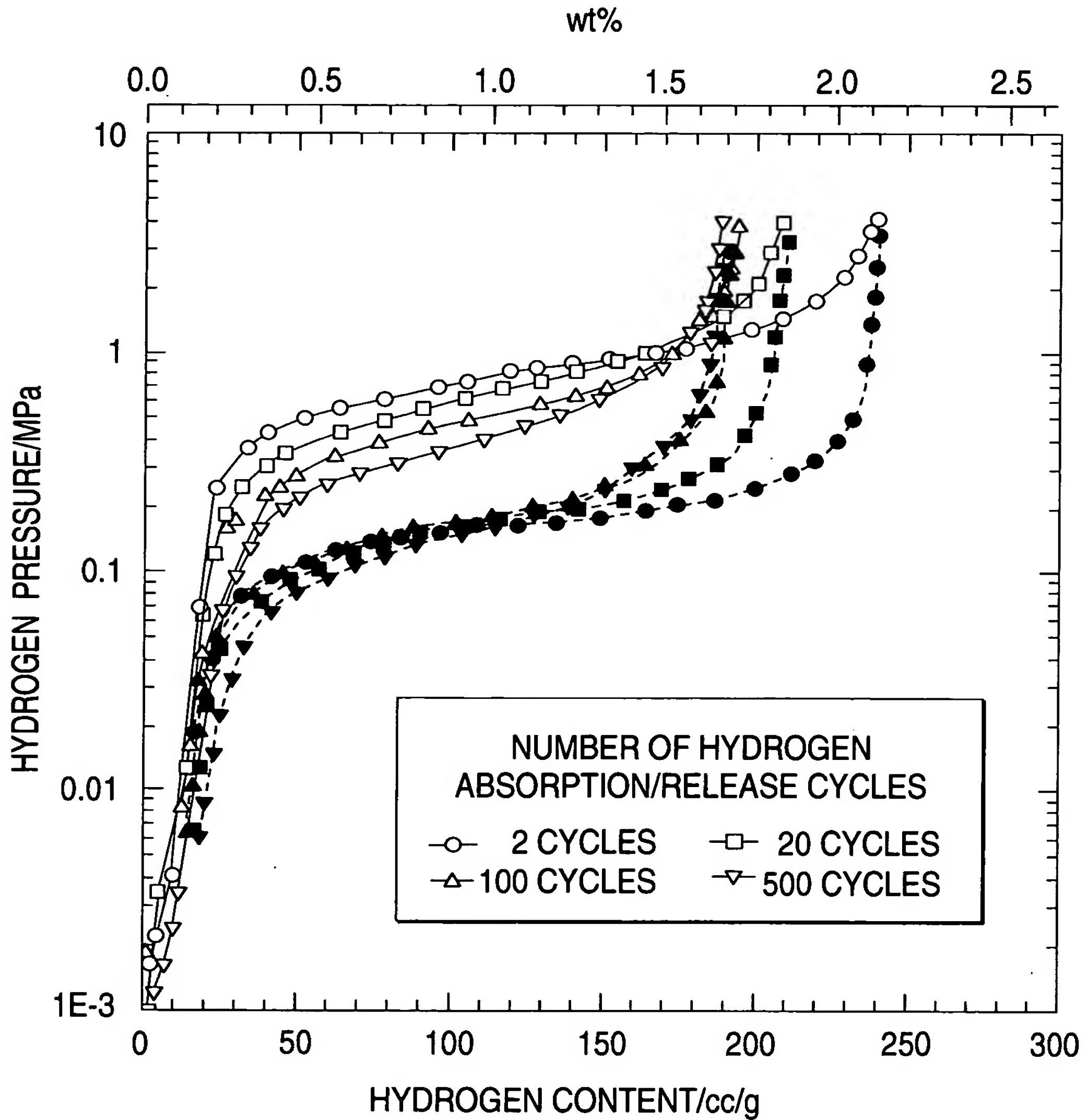
HEAT TREATMENT:  $\square$   $\blacksquare$  1450°C X 1 MIN.  $\rightarrow$  WQ  
 $\circ$   $\bullet$  1300°C X 3 HR.  $\rightarrow$  WQ

FIG. 4



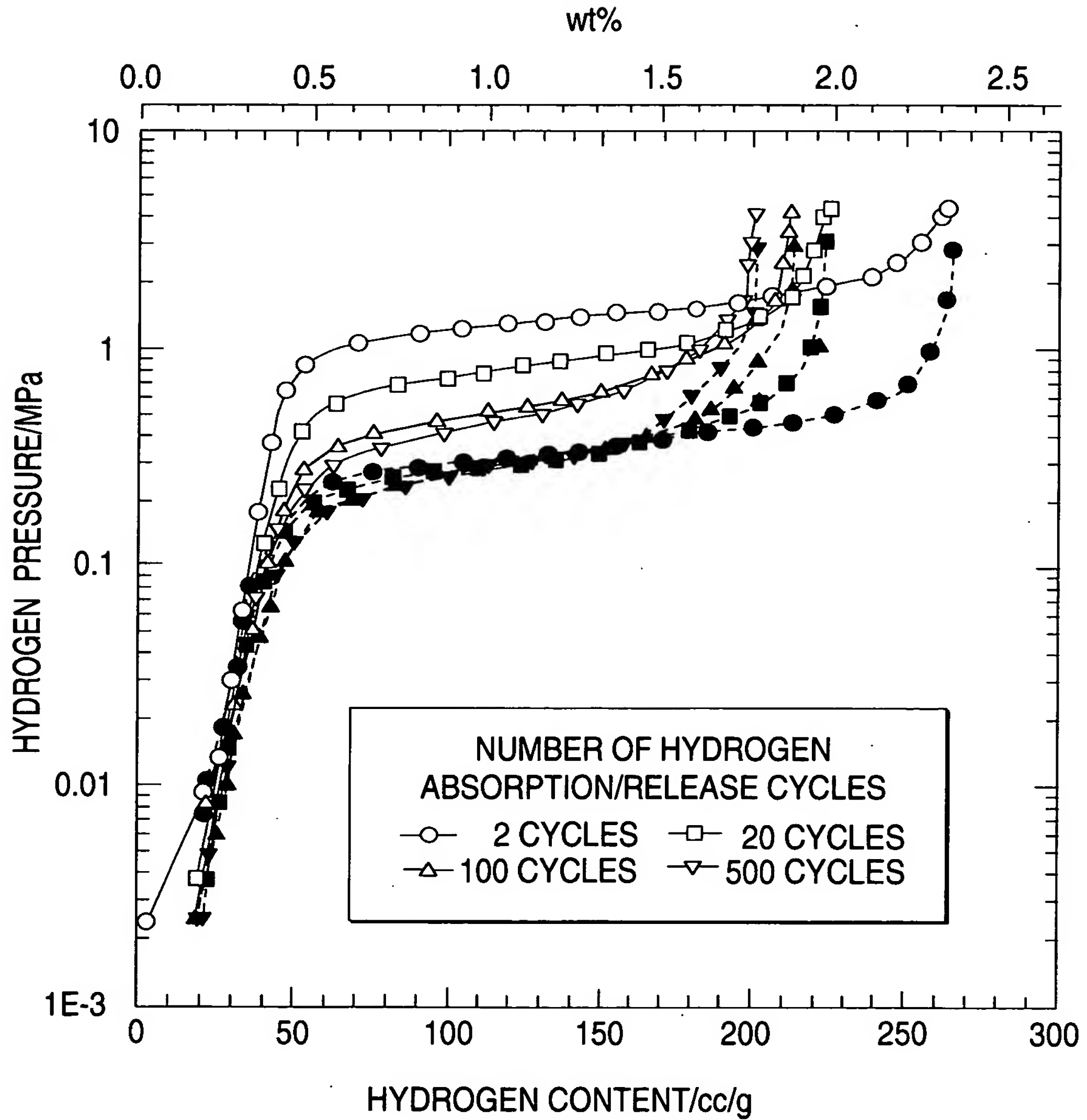
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FIG. 5



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FIG. 6



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FIG. 7

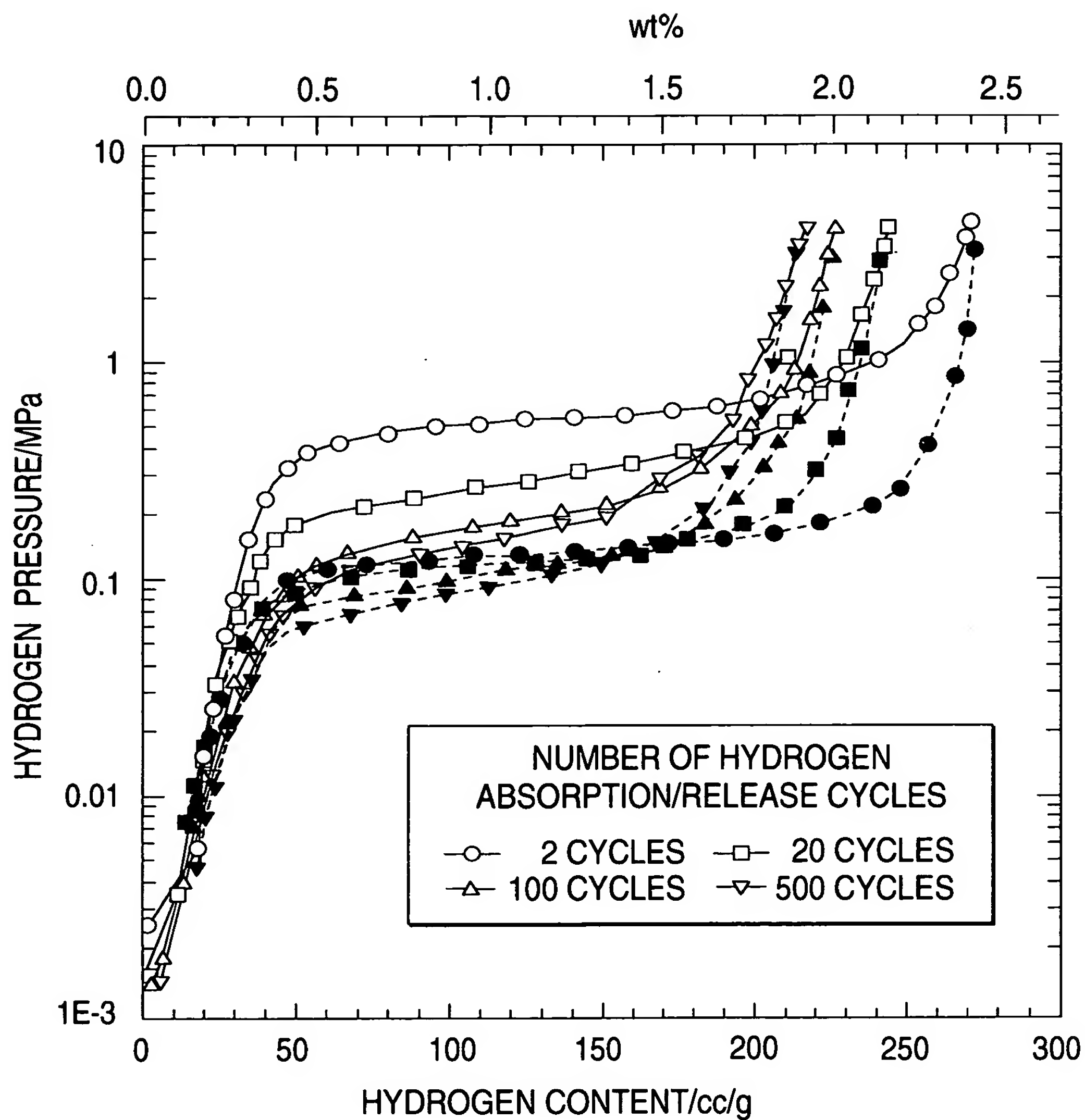


FIG. 8

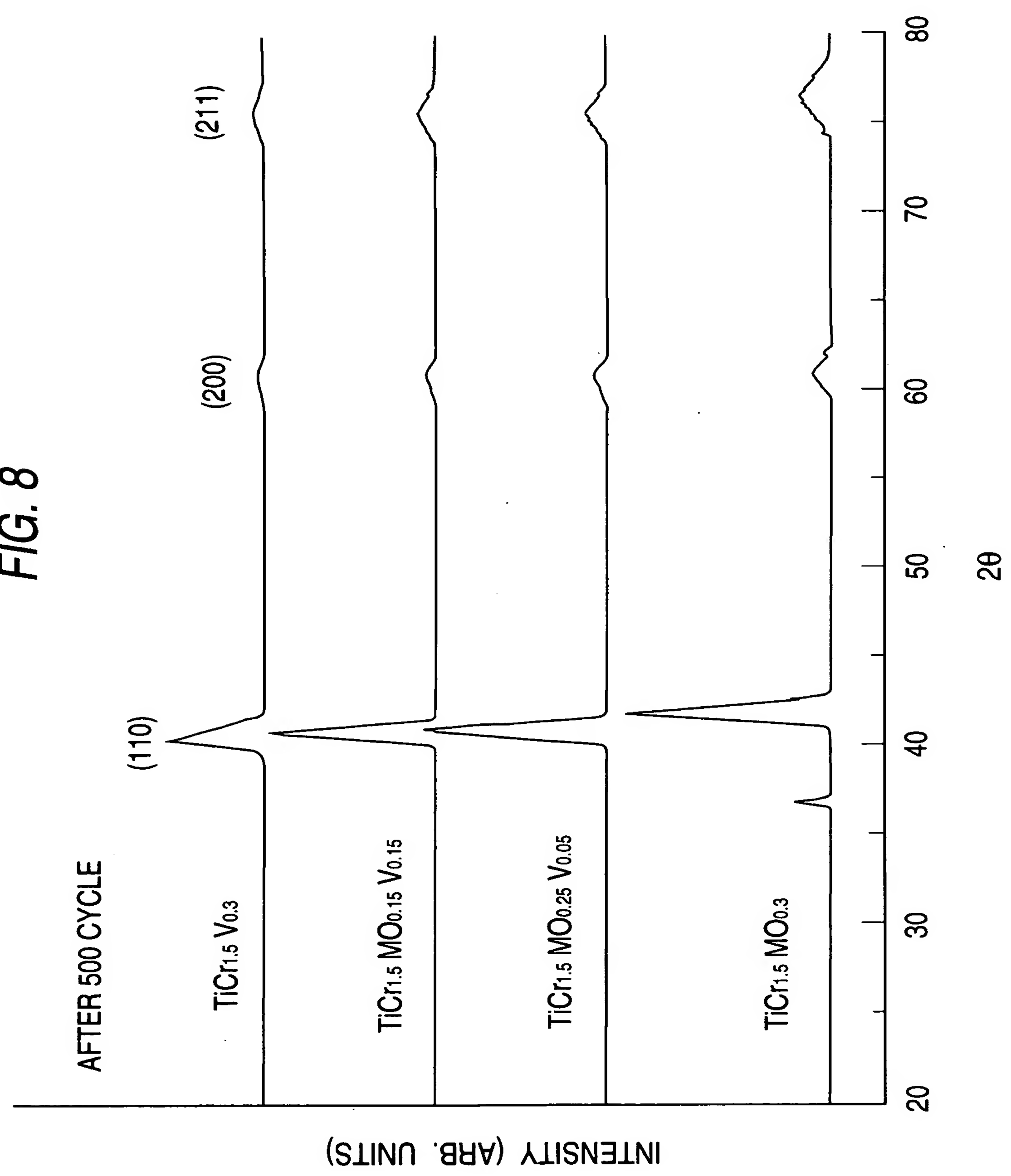
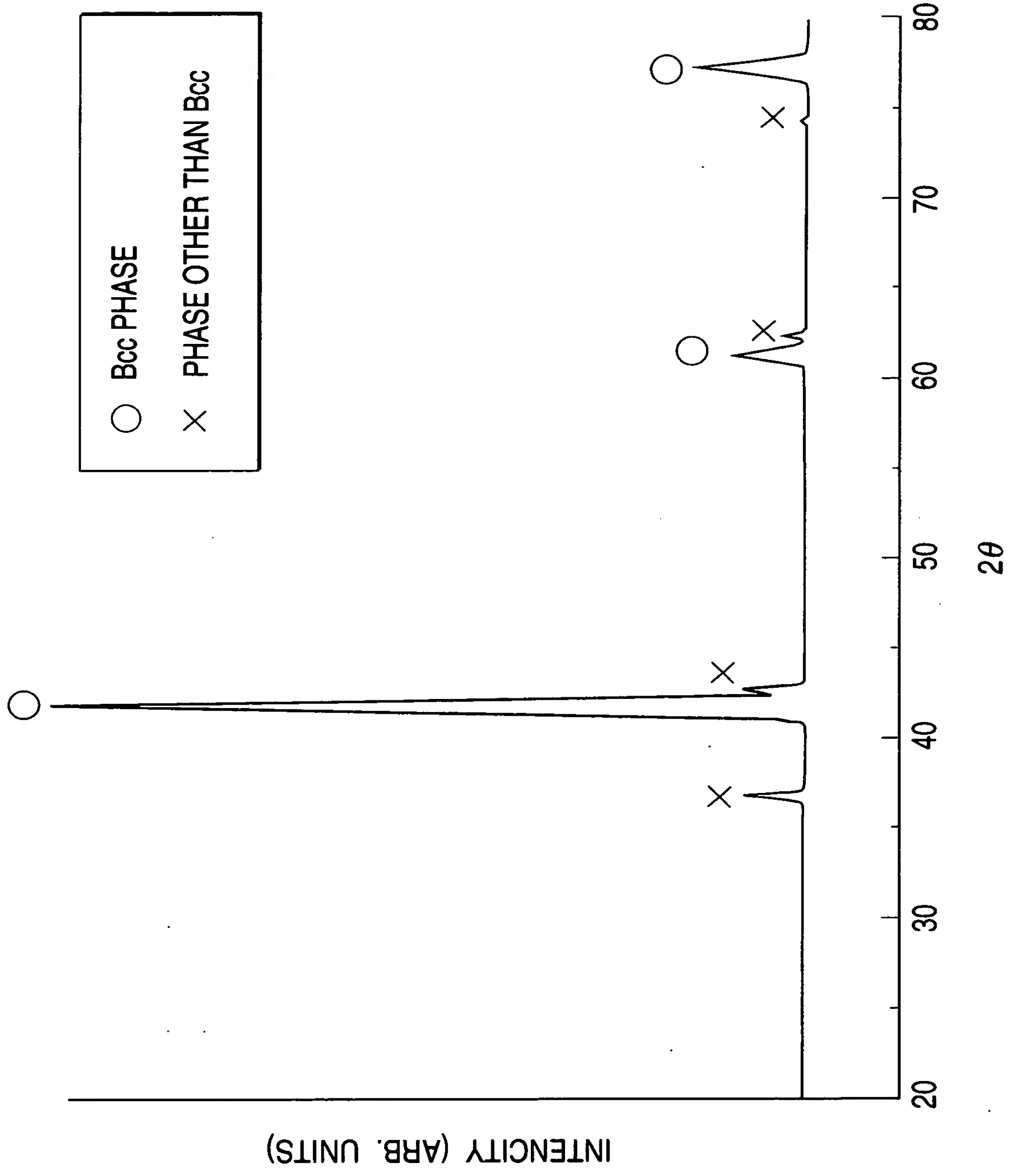


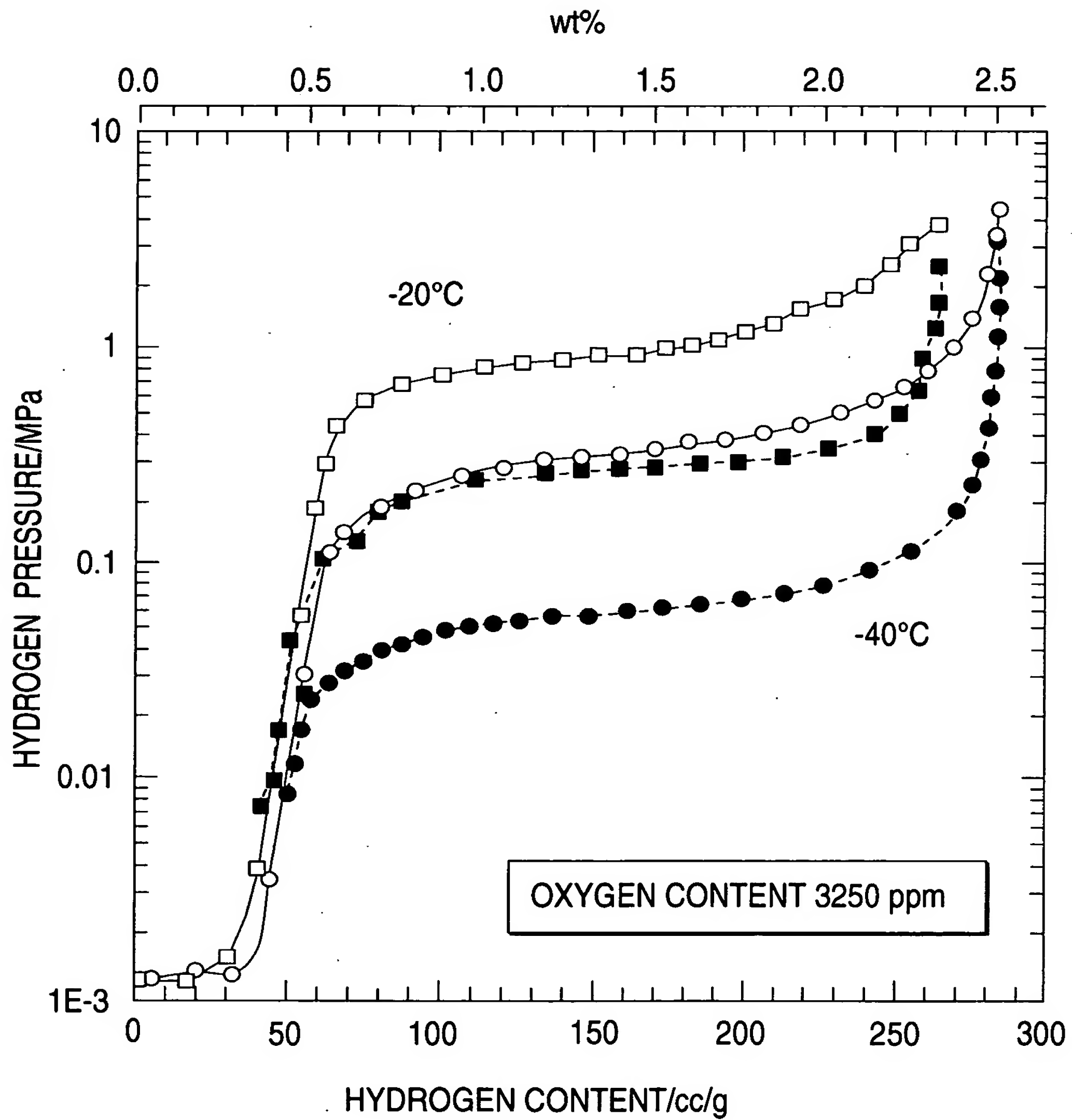


FIG. 9



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FIG. 10



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FIG. 11

